

SITE DATA:

Location: BIG OX SSC, NEBRASKA

Building Air Exchanges Per Hour: 0.96 (unsheltered single storied)

Time: July 21, 2018 1200 hours CDT (user specified)

CHEMICAL DATA:

Chemical Name: METHANE

CAS Number: 74-82-8 Molecular Weight: 16.04 g/mol

PAC-1: 65000 ppm PAC-2: 230000 ppm PAC-3: 400000 ppm

LEL: 50000 ppm UEL: 150000 ppm Ambient Boiling Point: -259.5° F

Vapor Pressure at Ambient Temperature: greater than 1 atm Ambient Saturation Concentration: 1,000,000 ppm or 100.0%

ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)

Wind: 10.1 miles/hour from NNW at 3 meters

Ground Roughness: open country

Air Temperature: 61.1° F

No Inversion Height

Cloud Cover: 0 tenths
Stability Class: C
Relative Humidity: 73%

SOURCE STRENGTH:

Direct Source: 101 cubic feet/min Source Height: 25 feet

Source State: Gas

Source Temperature: 70° F Source Pressure: 164.7 psia Release Duration: 60 minutes Release Rate: 48 pounds/min

Total Amount Released: 2,878 pounds

THREAT ZONE:

Threat Modeled: Flammable Area of Vapor Cloud

Model Run: Gaussian

Red : LOC is not exceeded --- (50000 ppm = LEL)

Note: Threat zone was not drawn because

the ground level concentrations never exceed the LOC.

Orange: LOC is not exceeded --- (30000 ppm = 60% LEL = Flame Pockets)

Note: Threat zone was not drawn because

the ground level concentrations never exceed the LOC.

Yellow: LOC is not exceeded --- (5000 ppm = 10% LEL)

Note: Threat zone was not drawn because

the ground level concentrations never exceed the LOC.